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<b>TRANSMITTAL FORM</b>  (To be used for all correspondence after initial filing)	Application Number	10/762,058
	Filing Date	January 15, 2004
	First Named Inventor	Ajay Bhatia
	Art Unit	1642
	Examiner Name	
	Attorney Docket No.	210121.515D1

ENCLOSURES (check all that apply)		
<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment/Response <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input checked="" type="checkbox"/> Information Disclosure Statement; Form PTO-1449 (8 Sheets) <input checked="" type="checkbox"/> 78 Cited References <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53 <input type="checkbox"/> Response to Missing Parts/Incomplete Application	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Request for Corrected Filing Receipt <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation, Change of Correspondence Address <input type="checkbox"/> Declaration <input type="checkbox"/> Statement under 37 CFR 3.73(b) <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____ <input type="checkbox"/> Landscape Table on CD	<input type="checkbox"/> After Allowance Communication to TC <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to TC ( <i>Appeal Notice, Brief, Reply Brief</i> ) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Return Receipt Postcard <input type="checkbox"/> Other Enclosure(s) ( <i>please identify below</i> ): _____ _____ _____ _____
<u>Remarks</u>  		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT			
Firm Name	Seed Intellectual Property Law Group PLLC	Customer Number <b>00500</b>	
Signature			
Printed Name	Julie Urvater, Ph.D., Patent Agent		
Date	September 29, 2005	Reg. No.	50,461

CERTIFICATE OF TRANSMISSION/MAILING		
I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.		
Signature		
Typed or printed name	Lawrence Teague	Date: September 29, 2005

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.  
1694621



PATENT

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September 29, 2005  
Date

Lawrence Teague  
Lawrence Teague

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants : Ajay Bhatia et al.  
Application No. : 10/762,058  
Filed : January 15, 2004  
For : COMPOUNDS AND METHODS FOR TREATMENT AND  
DIAGNOSIS OF CHLAMYDIAL INFECTION

Art Unit : 1641  
Docket No. : 210121.515D1  
Date : September 29, 2005

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents:

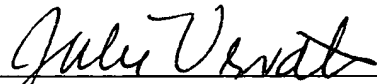
In accordance with 37 CFR 1.56 and 1.97 through 1.98, applicants wish to make known to the U.S. Patent and Trademark Office the references set forth on the attached Form PTO-1449. Copies of the cited U.S. patents and published patent applications are not required and accordingly have not been provided. Copies of all other cited references are enclosed. As to any reference cited, applicants do not admit that it is "prior art" under 35 U.S.C. §§ 102 or 103, and specifically reserve the right to traverse or antedate any such reference, as by a showing under 37 CFR 1.131 or other method. Although the aforesaid references are made known to the Patent and Trademark Office in compliance with applicants' duty to disclose all information they

are aware of which is believed relevant to the examination of the above-identified application, applicants believe that their invention is patentable.

Please acknowledge receipt of this Information Disclosure Statement and kindly make the cited references of record in the above-identified application.

Applicants believe this Information Disclosure Statement has been timely filed, however, the Director is authorized to charge any fee due by way of this Information Disclosure Statement to our Deposit Account No. 19-1090.

Respectfully submitted,  
Seed Intellectual Property Law Group PLLC

  
\_\_\_\_\_  
Julie A. Urvater, Ph.D., Patent Agent  
Registration No. 50,461

JEH:ljt

Enclosures:

Postcard  
Transmittal Form  
Form PTO-1449 (8 Sheets)  
Cited References (78)

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FORM PTO-1449  
(REV. 7-80)U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.

210121.515D1

APPLICATION NO.

10/762,058

## INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

APPLICANTS

Ajay Bhatia et al.

FILING DATE

January 15, 2004

GROUP ART UNIT

1642

## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	4,118,469	10/03/78	Caldwell et al.	424	1	
	AB	4,497,899	02/05/85	Armstrong et al.	436	510	
	AC	5,166,053	11/24/92	Huguenel et al.	435	7.36	
	AD	5,318,892	06/07/94	Watanabe et al.	435	7.36	
	AE	5,725,863	03/10/98	Daniels et al.	424	263.1	
	AF	5,869,608	02/09/99	Caldwell et al.	530	350	
	AG	6,166,177	12/26/00	Probst et al.	530	300	
	AH	6,432,916	08/13/02	Probst et al.	514	2	
	AI	6,448,234	09/10/02	Fling	514	44	
	AJ	6,565,856	05/20/03	Skeiky et al.	424	263.1	

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	AK	EP 348725 A2	01/03/90	EPO		
	AL	EP 784059 A1	07/16/97	EPO		
	AM	WO 94/06827	03/31/94	WIPO		
	AN	WO 97/06263	02/20/97	WIPO		
	AO	WO 98/02546	01/22/98	WIPO		

## OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	AP	Allen and Stephens, "An intermolecular mechanism of T cell help for the production of antibodies to the bacterial pathogen, <i>Chlamydia trachomatis</i> ," <i>European Journal of Immunology</i> 23: 1169-1172, 1993.
	AQ	Baehr et al., "Mapping antigenic domains expressed by chlamydia trachomatis major outer membrane protein genes," <i>Proc Natl Acad Sci</i> 85(1):4000-4004, June 1, 1988.
	AR	Brunham et al., "Chlamydia trachomatis antigens: role in immunity and pathogenesis," <i>Infectious Agents and Disease</i> 3(5):218-233, October 1994.

EXAMINER

DATE CONSIDERED

\* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).

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<b>U.S. PATENT DOCUMENTS</b>						
*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
BA						
<b>FOREIGN PATENT DOCUMENTS</b>						
		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION YES NO	
	BB	WO 98/10789	03/19/98	WIPO		
	BC	WO 99/17741	04/15/99	WIPO		
	BD	WO 99/27105	06/03/99	WIPO		
	BE	WO 99/28475	06/10/99	WIPO		
	BF	WO 99/51748	10/14/99	WIPO		
	BG	WO 00/34483	06/15/00	WIPO		
	BH	WO 01/40474	06/07/01	WIPO		
	BI					
<b>OTHER ART</b> <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>						
	BJ	Burgess, W.H. et al., "Possible Dissociation of the Heparin-binding and Mitogenic Activities of Heparin-binding (Acidic Fibroblast) Growth Factor-1 from Its Receptor-binding Activities by Site-directed Mutagenesis of a Single Lysine Residue," <i>The Journal of Cell Biology</i> 111: 2129-2138, 1990.				
	BK	Chakrabarti et al., "Vaccinia virus expression vector: coexpression of $\beta$ -galactosidase provides visual screening of recombinant virus plaques," <i>Molecular and Cellular Biology</i> 5(12):3403-3409, December 1985.				
	BL	Conlan, J.W. et al., "Isolation of recombinant fragments of the major outer-membrane protein of <i>Chlamydia trachomatis</i> : their potential as subunit vaccines," <i>Journal of General Microbiology</i> 136: 2013-2020, 1990.				
	BM	Earl et al., "Biological and immunological properties of human immunodeficiency virus type 1 envelope glycoprotein: analysis of proteins and truncations and deletions expressed by recombinant vaccinia viruses," <i>Journal of Virology</i> 65(1):31-41, January 1991.				
	BN	GenBank Accession No. AE001273, "Genome sequence of an obligate intracellular pathogen of humans: <i>Chlamydia trachomatis</i> ," June 2, 2004.				
	BO	Genbank Database, Accession No. AE001316, June 1, 2004				
EXAMINER				DATE CONSIDERED		
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	CA						
<b>FOREIGN PATENT DOCUMENTS</b>							
		DOCUMENT NUMBER	DATE	COUNTRY		TRANSLATION	
						YES	NO
	CB						
<b>OTHER ART</b> <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>							
	CC	Genbank Database, Accession No. AE001320, June 1, 2004					
	CD	GenBank Database, Accession No. AE001323, "Genome sequence of an obligate intracellular pathogen of humans: Chlamydia trachomatis," June 1, 2004.					
	CE	GenBank Database, Accession No. AE001324, "Genome sequence of an obligate intracellular pathogen of humans: Chlamydia trachomatis," June 1, 2004.					
	CF	Genbank Database, Accession No. AE001326, June 1, 2004.					
	CG	GenBank Database, Accession No. AE001335, "Genome sequence of an obligate intracellular pathogen of humans: Chlamydia trachomatis," June 1, 2004.					
	CH	Genbank Database, Accession No. AE001361, June 1, 2004.					
	CI	GenBank Database, Accession No. E71500, "Genome sequence of an obligate intracellular pathogen of humans: Chlamydia trachomatis," November 3, 2000.					
	CJ	GenBank Database, Accession No. H71501, "Genome sequence of an obligate intracellular pathogen of humans: Chlamydia trachomatis," July 28, 2000.					
	CK	GenBank Database, Accession No. H71510, "Genome sequence of an obligate intracellular pathogen of humans: Chlamydia trachomatis," October 8, 1999.					
	CL	GenBank Database, Accession Number AAC68408, June 1, 2004.					
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	DA						
<b>FOREIGN PATENT DOCUMENTS</b>							
		DOCUMENT NUMBER	DATE	COUNTRY		TRANSLATION	
						YES	NO
	DB						
<b>OTHER ART</b> <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>							
	DC	GenBank Database, Accession Number AAF39070, March 26, 2003.					
	DD	GenBank Database, Accession Number AE001333, June 1, 2004.					
	DE	GenBank Database, Accession Number AE001353, October 30, 2000.					
	DF	GenBank Database, Accession Number AE002286, March 26, 2003.					
	DG	GenBank Database, Accession Number AE002343, March 26, 2003.					
	DH	GenBank Database, Accession No. H71468, October 8, 1999.					
	DI	EMBL Database, Accession Number O84466, June 1, 2003.					
	DJ	GenBank Database, Accession No. NC_000117, September 14, 2004.					
	DK	Grimwood, J. et al., "Expression of <i>Chlamydia pneumoniae</i> Polymorphic Membrane Protein Family Genes," <i>Infection and Immunity</i> 69(4): 2383-2389, April 2001.					
	DL	Gu et al., "Chlamydia trachomatis RNA polymerase $\alpha$ subunit: sequence and structural analysis," <i>J. Bacteriology</i> 177:2594-2601, May 1995.					
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<b>INFORMATION DISCLOSURE STATEMENT</b> (Use several sheets if necessary)		APPLICANTS Ajay Bhatia et al.	
		FILING DATE January 15, 2004	GROUP ART UNIT 1642

### U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
EA						

### FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
				YES	NO
EB					

### OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

EC	Hayes, L.J. et al., " <i>Chlamydia trachomatis</i> major outer membrane protein epitopes expressed as fusions with LamB in an attenuated <i>aroA</i> strain of <i>Salmonella typhimurium</i> ; their application as potential immunogens," <i>Journal of General Microbiology</i> 137: 1557-1564, 1991.
ED	Hayes, L.J. et al., "The major outer-membrane proteins of <i>Chlamydia trachomatis</i> serovars A and B: intra-serovar amino acid changes do not alter specificities of serovar- and C subspecies-reactive antibody-binding domains," <i>Journal of General Microbiology</i> 136: 1559-1566, 1990.
EE	Janeway et al. (eds.), <i>Immunobiology: The Immune System in Health and Disease</i> , Garland Pub., New York, NY, 1997, pgs. 7:6-7:10.
EF	Jensen et al., "Infection of human and simian tissue cultures with rous sarcoma virus," <i>Proc. Natl. Acad. Sci. USA</i> 52:53-59, July 1964.
EG	Jobling, M.G. et al., "Analysis of structure and function of the B subunit of cholera toxin by the use of site-directed mutagenesis," <i>Molecular Microbiology</i> 5(7): 1755-1767, 1991.
EH	Kalman, S. et al., "Comparative genomes of <i>Chlamydia pneumoniae</i> and <i>C. trachomatis</i> ," <i>Nature Genetics</i> 21: 385-389, April 1999.
EI	Kim, S.-K. et al., "Induction of HLA Class I-Restricted CD8 <sup>+</sup> CTLs Specific for the Major Outer Membrane Protein of <i>Chlamydia trachomatis</i> in Human Genital Tract Infections," <i>The Journal of Immunology</i> 162: 6855-6866, 1999.
EJ	Knudsen, K. et al., "Identification of Two Novel Genes Encoding 97- to 99- Kilodalton Outer Membrane Proteins of <i>Chlamydia pneumoniae</i> ," <i>Infection and Immunity</i> 67(1): 375-383, January 1999.
EK	Kuon, W. et al., "Recognition of Chlamydial Antigen By HLA-B27-Restricted Cytotoxic T Cells in HLA-B*2705 Transgenic CBA(H-2 <sup>k</sup> ) Mice," <i>Arthritis &amp; Rheumatism</i> 40(5): 945-954, May 1997.
EL	Lalvani et al., "Rapid effector function in CD8 <sup>+</sup> memory T cells," <i>J. Exp. Med.</i> 186(6):859-865, September 15, 1997.

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	FA						
<b>FOREIGN PATENT DOCUMENTS</b>							
		DOCUMENT NUMBER	DATE	COUNTRY		TRANSLATION	
						YES	NO
	FB						
<b>OTHER ART</b> <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>							
	FC	Lazar, E. et al., "Transforming Growth Factor $\alpha$ : Mutation of Aspartic Acid 47 and Leucine 48 Results in Different Biological Activities," <i>Molecular and Cellular Biology</i> 8(3): 1247-1252, March 1988.					
	FD	Levinson and Jawetz, <i>Medical Microbiology &amp; Immunology</i> , 3d ed., Appleton & Lange, 1994, pp.292-293.					
	FE	Lu and Zhong, "Interleukin-12 Production IS Required for Chlamydial Antigen-Pulsed Dendritic Cells To Induce Protection against Live <i>Chlamydia trachomatis</i> Infection," <i>Infection and Immunity</i> 67(4): 1763-1769, April 1999.					
	FF	Maclean, I.W. et al., "Characterization of <i>Chlamydia trachomatis</i> antigens with monoclonal and polyclonal antibodies," <i>Can. J. Microbiol.</i> 34: 141-147, 1988.					
	FG	Murdin, A.D. et al., "A Poliovirus Hybrid Expressing a Neutralization Epitope from the Major Outer Membrane Protein of <i>Chlamydia trachomatis</i> Is Highly Immunogenic," <i>Infection and Immunity</i> 61(10): 4406-4414, October 1993.					
	FH	Mygind, P.H. et al., "Membrane proteins PmpG and PmpH are major constituents of <i>Chlamydia trachomatis</i> L2 outer membrane complex," <i>FEMS Microbiol. Lett.</i> 186(2): 163-169, May 15, 2000.					
	FI	Pal, S. et al., "Immunization with an Acellular Vaccine Consisting of the Outer Membrane Complex of <i>Chlamydia trachomatis</i> Induces Protection against a Genital Challenge," <i>Infection and Immunity</i> 65(8): 3361-3369, August 1997.					
	FJ	Pawlikowska and Deptula, "Adherence and ingesting capacity of peripheral blood granulocytes in rabbits immunized with various antigens of <i>Chlamydia sp.</i> ," <i>Central European Journal of Immunology</i> 24: 293-298, 1999.					
	FK	Peterson, E.M. et al., "The Effect of Orientation Within a Chimeric Peptide on the Immunogenicity of <i>Chlamydia trachomatis</i> Epitopes," <i>Molecular Immunology</i> 33(4/5): 335-339, 1996.					
	FL	Rank et al., "Immunization against Chlamydial Genital Infection in Guinea Pigs with UV-Inactivated and Viable <i>Chlamydiae</i> Administered by Different Routes," <i>Infection and Immunity</i> , 58(8):2599-2605, August 1990.					
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GA						

**FOREIGN PATENT DOCUMENTS**

DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
			YES	NO
GB				

**OTHER ART** (Including Author, Title, Date, Pertinent Pages, Etc.)

GC	Read et al., "Genome sequences of Chlamydia trachomatis MoPn and Chlamydia pneumoniae AR39," <i>Nucleic Acids Research</i> 28(6):1397-1406, 2000.
GD	Rudinger, J., "Characteristics of the amino acids as components of a peptide hormone sequence," in <i>Peptide Hormones</i> , Parsons, J.A. (ed.), University Park Press, Baltimore, MD, June 1976, pgs. 1-5.
GE	Sanderson et al., "Identification of a CD4 <sup>+</sup> T Cell-stimulating Antigen of Pathogenic Bacteria by Expression Cloning," <i>J. Exp. Med.</i> 182(6):1751-1757, 1995.
GF	Scudiero et al., "Evaluation of a soluble tetrazolium/formazan assay for cell growth and drug sensitivity in culture using human and other tumor cell lines," <i>Cancer Research</i> 48:4827-4833, September 1, 1988.
GG	Shirai, M. et al., "Comparison of whole genome sequences of <i>Chlamydia pneumoniae</i> J138 from Japan and CWL029 from USA," <i>Nucleic Acid Research</i> 28(12): 2311-2314, 2000.
GH	Stagg, A.J., "Vaccines against <i>Chlamydia</i> : approaches and progress," <i>Molecular Medicine Today</i> 4(4): 166-173, April 1998.
GI	Starnbach et al., "Protective cytotoxic T lymphocytes are induced during murine infection with <i>Chlamydia trachomatis</i> ," <i>The Journal of Immunology</i> 153(11):5183-5189, December 1, 1994.
GJ	Stephens et al., "Genome Sequence of an Obligate Intracellular Pathogen of Humans: <i>Chlamydia trachomatis</i> ," <i>Science</i> 282:754-759, October 23, 1998.
GK	Su and Caldwell, "Immunogenicity of a synthetic oligopeptide corresponding to antigenically common T-helper and B-cell neutralizing epitopes of the major outer membrane protein of <i>Chlamydia trachomatis</i> ," <i>Vaccine</i> 11(11): 1159-1166, 1993.
GL	Su, H. et al., "Protective efficacy of a parenterally administered MOMP-derived synthetic oligopeptide vaccine in a murine model of <i>Chlamydia trachomatis</i> genital tract infection: serum neutralizing IgG antibodies do not protect against chlamydial genital tract infection," <i>Vaccine</i> 13(11): 1023-1032, 1995.

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					YES	NO
	HB					

**OTHER ART** (Including Author, Title, Date, Pertinent Pages, Etc.)

	HC	Unanue, E.R., "Chemical Features of Peptide Selection by the Class II Histocompatibility Molecules," <i>American Journal of Pathology</i> 154(3): 651-664, March 1999.
	HD	Webb et al., "Molecular cloning of a novel protein antigen of Leishmania major that elicits a potent immune response in experimental murine leishmaniasis," <i>The Journal of Immunology</i> 157:5034-5041, 1996
	HE	Yasuda, K. et al., "Serine 6 of Lck Tyrosine Kinase: A Critical Site for Lck Myristoylation, Membrane Localization, and Function in T Lymphocytes," <i>The Journal of Immunology</i> 165: 3226-3231, 2000.
	HF	Zhang, D. et al., "DNA vaccination with the major outer-membrane protein gene induces acquired immunity to <i>Chlamydia trachomatis</i> (mouse pneumonitis) infection," <i>J. Infect. Dis.</i> 176(4): 1035-1040, October 1997.
	HG	Zhong, G. et al., "Immunogenicity Evaluation of a Lipidic Amino Acid-Based Synthetic Peptide Vaccine for <i>Chlamydia trachomatis</i> ," <i>The Journal of Immunology</i> 151(7): 3728-3736, October 1, 1993.
	HH	Zhong, G. et al., "Mapping epitopes of neutralizing monoclonal antibodies using phage random peptide libraries," <i>Journal of Industrial Microbiology &amp; Biotechnology</i> 19: 71-76, 1997.
	HI	Zhong, G. et al., "Conformational Mimicry of a Chlamydial Neutralization Epitope on Filamentous Phage," <i>Journal of Biological Chemistry</i> 269(39): 24183-24188, September 30, 1994.
	HJ	
	HK	
	HL	

EXAMINER

DATE CONSIDERED

\* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).